	Furaca #06	<u>.</u>
	AIM: - Preparation of Furaca from 7-ACA by no	
	- All 1 & Superior ()	<u> </u>
	- J. W. Dick	
	Modification :-	<u> </u>
	i) 0.15g EDTA added before 7-ACA addition.	
	2) 0.159 EDTA added later Reaction mass addition.	
	3) 25% Oxcess NaSH.	10
	PROCEDURE :-	
	Stage I	
3	Freparation of TFA	
	RAW MATERIALS '-	
. Transfer	2 - Furcy chloride : 27.5g (23ml).	
	DMW : (350 + 15) ml	
	Nash : 37.59.	
4.00	EtoAc : 250 mi	
2 1	1:14cl : 49 ml. pH - 0.94.	
	DMW : 175 ml.	
100	Nah (03 : 20 9 : Ph - 0 95	
4	1:14cl : 44 ml. pr - 0.45	
5.	Etc Ac : 100 ml	
	8.	
	Procedure	
	1) TIMW was charged followed by Nash at RT.	
	2) The Linnel was washed with DMW.	
	3)2-Furaye Chloride was then added in 40-450 at 20-	
	4) The mexture was stured for 5 and Sample give	
	due monitoring.	1
	5) EtcAc was then added and the pt adjusted to 0.9-14	
es.	with 12/44 in 15-20/	
	6) The lawers viere Seperated and OL1 given for HPLC.	
	it) To one organic taye; DMW was added and the pH	<u> </u>
	11 adjusted to 7.0 - 7.2 using Nakely in 15-20' at 20.	
	The mixtare stirred for 30' or 20-22's	(\mathcal{S})

	in the Country To the comment forms Ehn An
	8) The layers were Seperated: To the agreence layer & bo Ac
	: was added the pH adjusted to p.q-i.o using 1.1 HU.
	9) The layers were seperated and the organic layer (0 13)
	taken per next stage after & sample was given por HPL
	<u> </u>
	Reaction monitoring
	TFA Imp.
	99.51 ~
	OL, 98.17 1.06 OL, 96.50 1.98
	GUSECALIEDS
	CL4 - 250 mi AL2 - 230 mi CL3 - 430 ml
	: · · · · · · · · · · · · · · · · · · ·
	Stage II
	Preparation of Furaca.
	RAWMATERIALS
	7- ACA : 50.0g.
	EtoAc : 200 ml.
	C7AA 30 ml
	BF ₃ : 68.5g
	TFA : 130 ml.
I .	7Mw : 150 ml.
	EDTA : (0-15 + 0.15)9
	SHS : 1.0 g
	20% NH3 : 87mL
	DMW : (50 + 150 + 50) mi. (Spray+slurry+spra
	(Standar (Standard Standard) was (Standard & Standard
	PROCEPURE'-
	: 1) Eto Ac and GAA were Charged and the temperature
	lawered to 0°c
	2) BF3 was then purged at 15°C.
	3) FDTA was then added.
	4) The mix'we stored for 5'
	ه درخ هو م

	5) 4-AcA w	is then the	rged pollo	wed by I	FA and	a		
C -	the mixture	Stoved till	the com	pletion q	y the reach	ton of		
	A 2004	a cooled to	15 c sep	erately.				
	5) DMW was cooled to 15°C Seperately. The substitution of the reaction; EDTA was added							
	The to DMW Reaction was then charged							
	# Beter completion of the reaction . EDTA was added followed by the to DMW Reaction was then charged							
	followed by	/ OHS:	instad to	3.5 in 2	30-45/ 118	ing		
	8) The pH w	as brem an	process					
	20% NH3.	at 25-30 C	- 4 6m 7	Ro' at 2	5-26°C. 20	_ 25°c		
	4) The mixte	ure was sou	erree pois	4 41056	nan with	DMW		
	10) The prior	dect was f	iltered_and	<u>n wasiner</u>				
	and the books	giver.						
11								
and the same	Reaction mon	sitoring.			~	3		
		7- ACA	Furaca	TEA	Imp.			
	45	9.31	72.77	16.38	0.24			
	1 hr 45'	1.75	87.2	8.67	0.33.			
	2 hr 15'	0.91	88-77	7.84	0.33			
				·				
		116.	89					
	wet	we: 116.	<i>d</i> -					
	P.	FUR ACA is	used- La	LEUR.	¥ 05			
	lws	FURICE OF	0					
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